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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,288	01/28/2008	Alex Haahr Gouliaev	GOULIAEV7A	2498
1444 BROWDY AN	7590 08/02/2010 ND NEIMARK, P.L.L.C		EXAM	IINER
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			08/02/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/539,288	GOULIAEV ET AL.	
Examiner	Art Unit	
Heather Calamita	1637	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
 - after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
- earned patent term adjustment. See 37 CFR 1.704(b).

Status			
1)🛛	Responsive to communi	ication(s) filed on 28 January 2008.	
2a)□	This action is FINAL.	2b)⊠ This action is non-final.	

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-117 is/are pending in the application.
4a) Of the above claim(s) is/are withdrawn from consideration.
5) Claim(s) is/are allowed.
6) Claim(s) is/are rejected.
7) Claim(s) is/are objected to.

8) Claim(s) 1-117 are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.	
10) The drawing(s) filed on is/are: a) accepted or b) objected to by	the Examiner.
Applicant may not require that any objection to the drawing(e) be held in abeyance	See 37 CFR 1.85

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ACKNO	owledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a)∐ All	b) Some * c) None of:
1.	Certified copies of the priority documents have been received.
2.	Certified copies of the priority documents have been received in Application No

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)	Notice of References Cited (PTO-892)
2)	Notice of Draftsperson's Patent Drawing Review (PTO-948)

 Information Displaceure Statement(s) (FTO/SE/08) Paper No(s)/Mail Date

4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

5) Notice of Informal Patent Application 6) Other:

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-77, drawn to a method for synthesizing at least one molecule.

Group II, claim(s) 78, drawn to a method of identification of at least one molecule.

Group III, claim(s) 79-104, drawn to a bifunctional molecule.

Group IV, claim(s) 105-106, drawn to a method of selecting at least one bifunctional molecule from a composition of bifunctional molecules.

Group V, claim(s) 107, drawn to a method for evolving a plurality of bifunctional molecules.

Group VI, claim(s) 108-117, drawn to a method for synthesizing at least one molecule.

The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The bifunctional molecule of at least claim 79 is not joined to the method of at least claims 1, 78, 105, 107 and 108. The bifunctional molecule of at least claim 79 requires a nucleic acid part and a functional entity comprising a reactive group and at least two polynucleotides. This is not a special technical feature which joins the claimed inventions becauseDower et al. (5,770,358, cited in the IDS) teach the bifunctional molecule (see example 3). The bifunctional molecule of at least claim 79 is not limited in scope so as to require the method of at least claims 1, 78, 105, 107 and 108, so therefore are not joined by a special technical feature.

This application contains claims directed to more than one species of the generic invention.

These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

If applicant elects the invention of Group I, applicant is required to elect from the following

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patentably distinct species.

Applicant must elect a single method step for steps iii) and iv) for initial search and examination.

- a, claim 2
- b, claim 3
- c. claim 4
- d. claim 5
- e. claim 6
- f. claim 7
- g. claim 8

Applicant must elect a single additional method step for initial search and examination.

- a, claim 10
- b. claim 13
- c. claim 15
- d. claim 16
- e. claim 18
- f. claim 19
- g. claim 20
- h. claim 45 i. claim 56
- j. claim 62
- k. claim 63
- l. claim 64
- m. claim 65
- n. claim 66

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o. claim 67

p. claim 68

q. claim 70

r, claim 71

Applicant must elect a single number and length of complementary connector molecules for initial search and examination.

a. claim 23

b. claim 25

c. claim 28

d. claim 31

e. claim 34

f. claim 37

g. claim 40

Applicant must elect a single type of plurality of complementary connector molecules for initial search and examination

a. claim 49

b, claim 50

c. claim 51

d. claim 52

e. claim 53

f. claim 54

Applicant must elect a single type of providing the plurality of complementary connector molecules for initial search and examination.

a. claim 57

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b. claim 58

Applicant must elect a single method of performing the method steps for initial search and examination.

a, claim 72

b. claim 73

c. claim 74

d. claim 75

Applicant must elect a single group for initial search and examination.

Claim 76 recites numerous groups, select a single one.

If applicant elects the invention of Group III, applicant is required to elect from the following patentably distinct species.

Applicant must elect a single number and length of complementary connector molecules for initial search and examination.

a. claim 80

b. claim 82

c. claim 85

d. claim 88

e. claim 91

f. claim 94

g. claim 97

Applicant must elect a single group for initial search and examination.

Claim 104 recites numerous groups, select a single one.

Applicant is required, in reply to this action, to elect a single species from each of requirements above to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply Application/Control Number: 10/539,288

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must also identify the claims readable on the elected species, including any claims subsequently added.

An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

3. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: Each of the different species from the requirement above has a materially different chemical structure lacking a common structural core or a completely different reaction mechanism.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected invention or species.

Should applicant traverse on the ground that the inventions have unity of invention (37 CFR 1.475(a)), applicant must provide reasons in support thereof. Applicant may submit evidence or identify

such evidence now of record showing the inventions to be obvious variants or clearly admit on the record that this is the case. Where such evidence or admission is provided by applicant, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double

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patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Correspondence

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heather G. Calamita, Ph.D., whose telephone number is \$71.272.2876 and whose e-mail address is heather.calamita@uspto.gov. However, the office cannot guarantee security through the e-mail system nor should official papers be transmitted through this route. The examiner can normally be reached on Monday through Thursday, 7:00 AM to \$5.30 PM.

If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Gary Benzion can be reached at 571.272.0782.

Papers related to this application may be faxed to Group 1637 via the PTO Fax Center using the fax number 571.273.8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to 571.272.0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO'S Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO'S Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO'S PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public. For more information about the PAIR system, see http://pair-direct.uspto.gov.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

/Heather G. Calamita/ Primary Examiner, Art Unit 1637